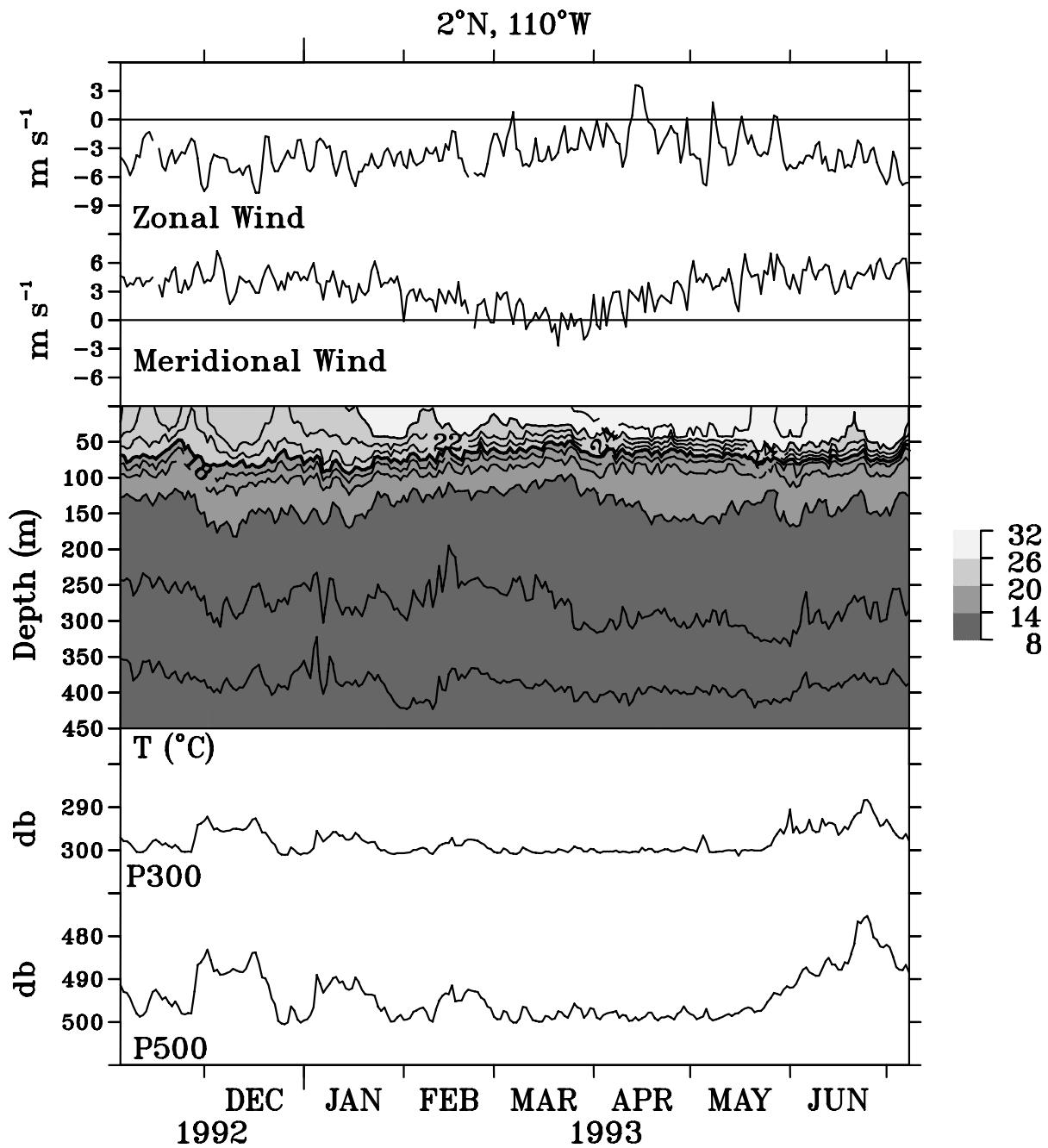


## **APPENDIX I**

**2°N, 110°W**



	<u>Mean</u>	<u>Std. Dev.</u>	<u>Min.</u>	<u>Max.</u>
P300	298.	2.7	288.	301.
P500	494.	5.6	475.	500.

Fig. I1.  $2^{\circ}\text{N}, 110^{\circ}\text{W}$ . Time series plots of zonal wind velocity, meridional wind velocity, contoured time series of remapped temperatures, and time series of 300-m (P300) and 500-m (P500) pressure sensor values.

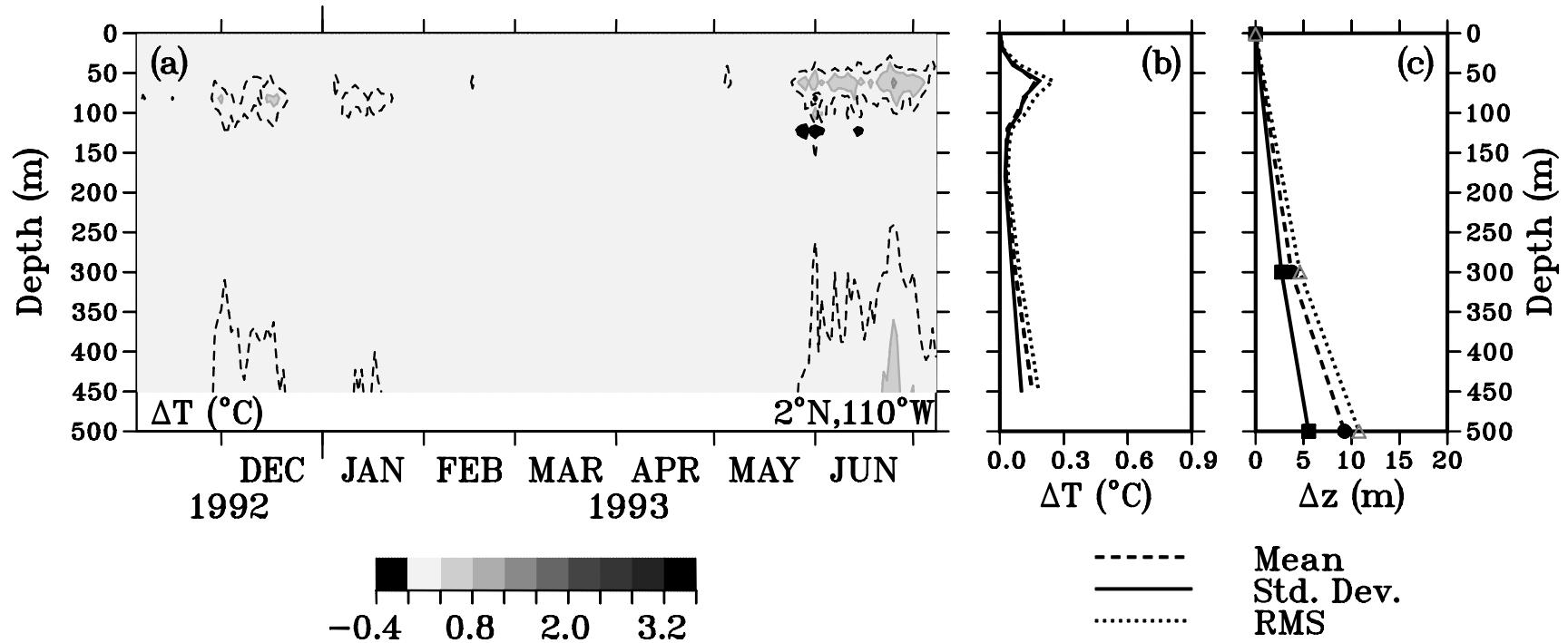
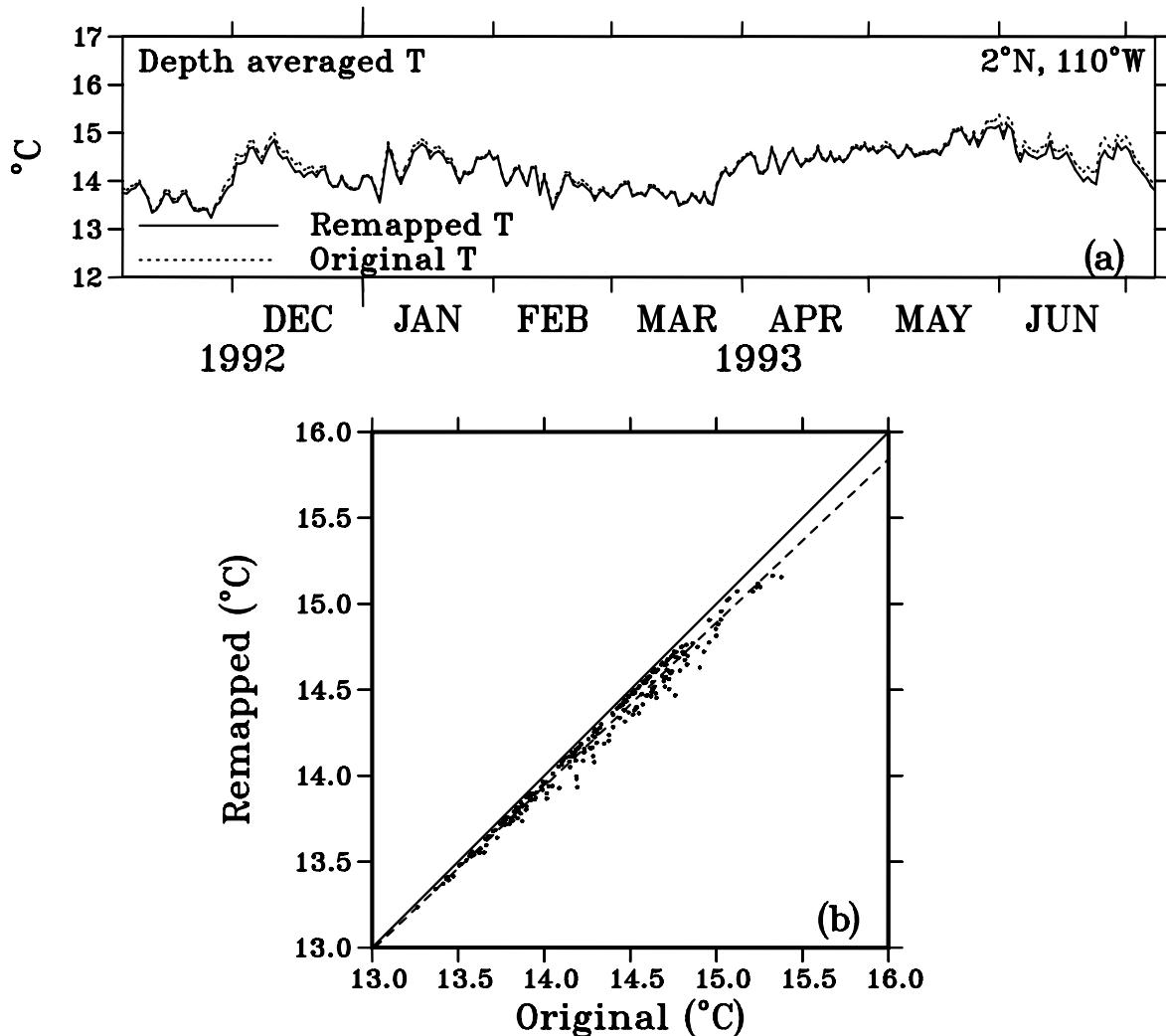


Fig. I2.  $2^{\circ}\text{N}, 110^{\circ}\text{W}$ . (a) Contoured time series of original temperatures minus remapped temperatures ( $\Delta T$ ). Shading interval is  $0.4^{\circ}\text{C}$ . Dashed line is the  $0.2^{\circ}\text{C}$  contour. Black areas represent values between  $-0.2^{\circ}\text{C}$  and  $0.0^{\circ}\text{C}$ . (b) Profiles of mean (dashed line), standard deviation (solid line), and RMS (dotted line)  $\Delta T$ . (c) Profiles of mean (dashed line), standard deviation (solid line), and RMS (dotted line) sensor vertical displacement ( $\Delta z$ ). Symbols indicate the nominal depths of the pressure sensors.

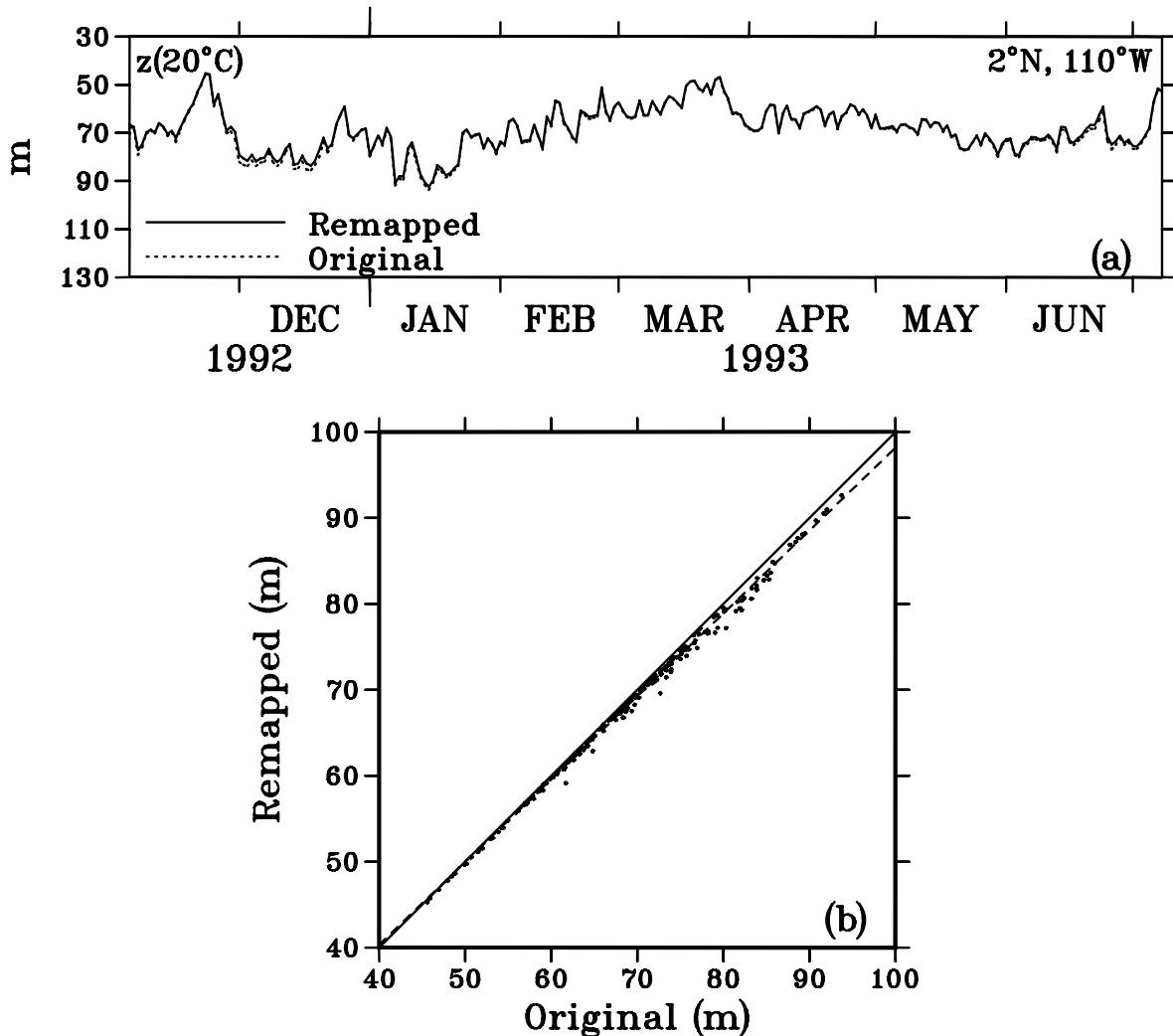


FROM 0000 5 NOV 92 TO 0000 8 JUL 93

	MIN	MAX	MEAN	STD DEV
x:	13.263	15.377	14.299	0.452
y:	13.235	15.163	14.223	0.431

n: 246 r: 0.99  
 $y = a + bx$ : a = 0.609 , b = 0.952 (Orth)  
 Difference: RMS = 0.09, Mean = -0.08

Fig. I3. 2N°, 110°W, 0- to 450-m depth-averaged temperatures (T) calculated from original temperatures and from remapped temperatures. (a) Time series. Dotted line is T from original temperatures; solid line is T from remapped temperatures. (b) Scatter plot with T from original temperatures as the x coordinate and T from remapped temperatures as the y coordinate. The solid line is the 1:1 fit; the dashed line is the linear least squares fit where the intercept  $a$  and the slope  $b$  have been derived from orthogonal regression. The number of points in the regression is  $n$ ; the correlation coefficient is  $r$ .

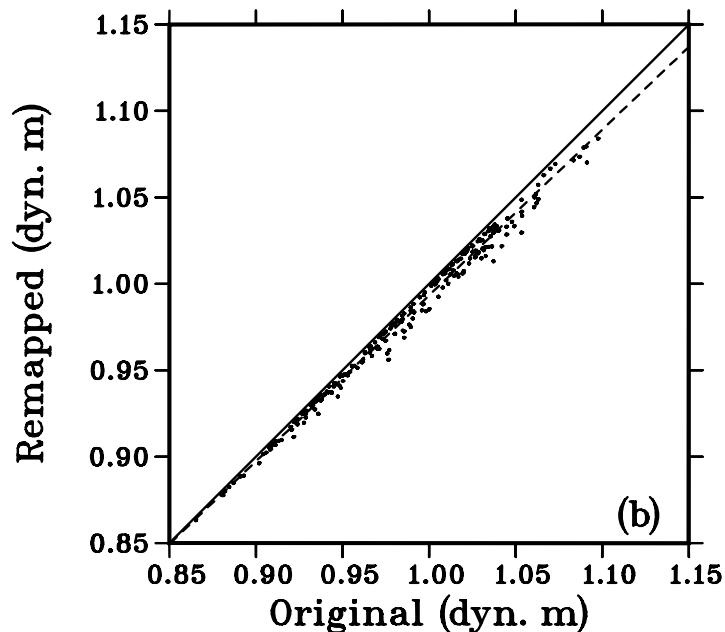
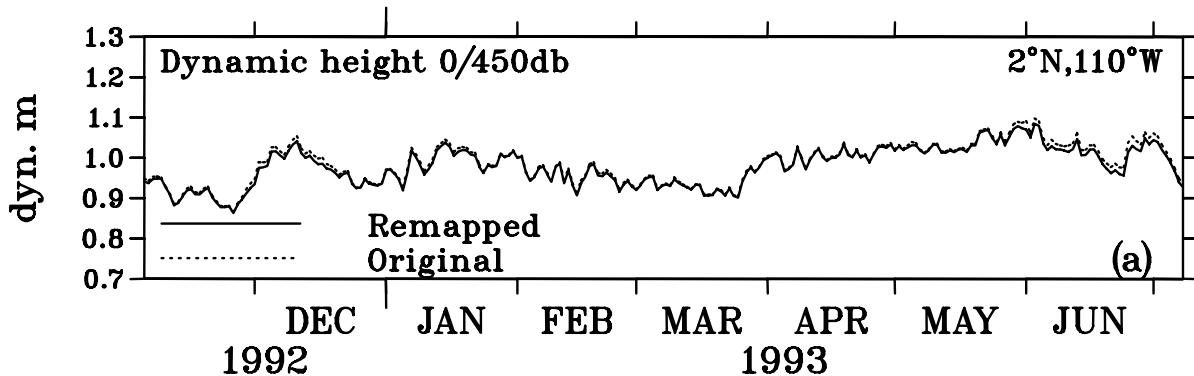


FROM 0000 5 NOV 92 TO 0000 8 JUL 93

	MIN	MAX	MEAN	STD DEV
x:	45.613	93.728	69.209	9.545
y:	45.301	92.604	68.484	9.199

n: 246 r: 1.00  
 $y = a + bx$ : a = 1.79 , b = 0.964 (Orth)  
 Difference: RMS = 0.95, Mean = -0.72

Fig. I4.  $2^{\circ}\text{N}$ ,  $110^{\circ}\text{W}$ ,  $20^{\circ}\text{C}$  isotherm depth ( $z(20^{\circ}\text{C})$ ) calculated from original temperatures and from remapped temperatures. (a) Time series. Dotted line is  $z(20^{\circ}\text{C})$  from original temperatures; solid line is  $z(20^{\circ}\text{C})$  from remapped temperatures. (b) Scatter plot with  $z(20^{\circ}\text{C})$  from original temperatures as the x coordinate and  $z(20^{\circ}\text{C})$  from remapped temperatures as the y coordinate. The solid line is the 1:1 fit; the dashed line is the linear least squares fit where the intercept  $a$  and the slope  $b$  have been derived from orthogonal regression. The number of points in the regression is  $n$ ; the correlation coefficient is  $r$ .



FROM 0000 5 NOV 92 TO 0000 8 JUL 93

	MIN	MAX	MEAN	STD DEV
x:	0.865	1.098	0.986	0.049
y:	0.863	1.084	0.980	0.047

n: 246 r: 1.00  
 $y = a + bx$ : a = 0.346E-1, b = 0.959 (Orth)  
 Difference: RMS = 0.01, Mean = -0.01

Fig. I5.  $2^{\circ}\text{N}$ ,  $110^{\circ}\text{W}$ , 0- to 450-db dynamic height calculated from original temperatures and from remapped temperatures. (a) Time series. Dotted line is dynamic height from original temperatures; solid line is dynamic height from remapped temperatures. (b) Scatter plot with dynamic height from original temperatures as the x coordinate and dynamic height from remapped temperatures as the y coordinate. The solid line is the 1:1 fit; the dashed line is the linear least squares fit where the intercept  $a$  and the slope  $b$  have been derived from orthogonal regression. The number of points in the regression is  $n$ ; the correlation coefficient is  $r$ .